SEST AVAILABLE COPY

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

03-054884

(43) Date of publication of application: 08.03.1991

1)Int.CI.

H05K 3/00 H05K 1/11

1)Application number: 01-188974

(71)Applicant: CANON INC

2)Date of filing:

24.07.1989

(72)Inventor: INAGAWA HIDEHO

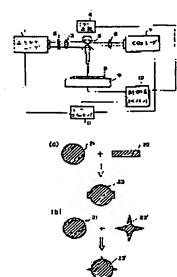
NOUJIYOU SHIGENOBU

4) THROUGH-HOLE PRINTED WIRING BOARD AND FORMATION OF THROUGH-HOLE

7)Abstract:

URPOSE: To highly reliably form a through-hole by forming a uniform etal film and circulating a plating solution in penetration hole for the rough-hole satisfactorily by providing a different shape part as the enetration hole.

ONSTITUTION: A workpiece 8 on an X-Y stage 9 is irradiated with a rcular beam spot 21 from a CO2 laser oscillator 7 via a focusing lens 6 nd a rotating mirror 5 is rotated by 90°, the workpiece 8 as an object hape 22 is irradiated at the same position with a pulsed oscillation sam from an excimer laser oscillator 1. Control means 10 performs novement of the workpiece, inversion of the mirror, and switching of sing completion, whereby a penetration hole 23 for the through—hole including the different shape provided thereon can be formed. Thus, a lating solution can be facilitated to be incorporated into the penetration ole, and air bubbles can be freed to the outside of the penetration hole pease the formation of the metal film.



EGAL STATUS

Date of request for examination]

Date of sending the examiner's decision of rejection]

Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

Date of final disposal for application]

Patent number]

Date of registration]

Number of appeal against examiner's decision of ejection]

Date of requesting appeal against examiner's decision of rejection]

Date of extinction of right]